Zephyr

Shortest Pulse Duration & High Repetition Rate Femtosecond Fiber Laser

An ultra-fast fiber laser comb with GHz range repetition rates, providing more than 1,5 W of average power. Its optical spectrum is centred at 1535nm and delivers pulses shorter than 100fs. Zephyr is the ideal fiber laser for optical communications.

Repetition Rate
1.3 GHz

Spectral Range
1535 +- 2 nm

Average Power
> 1.5 W

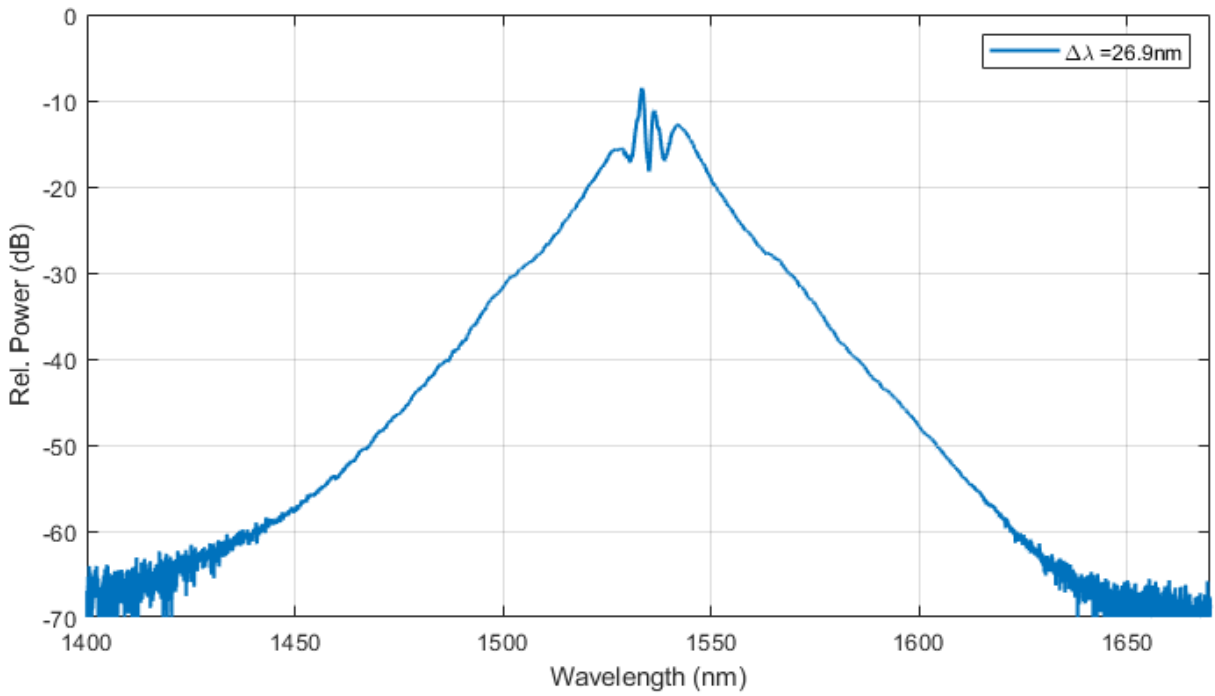
Pulse Duration
< 100 fs

/ Applications

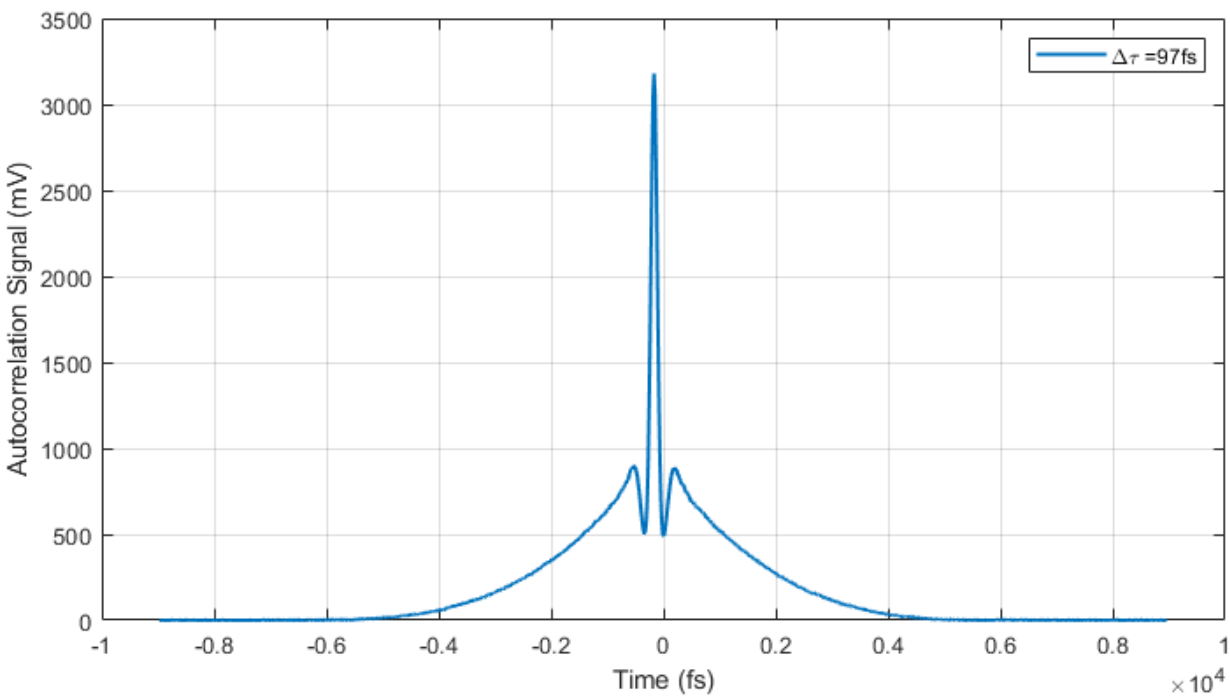
Optical Communications

Zephyr

/ Optical Spectrum

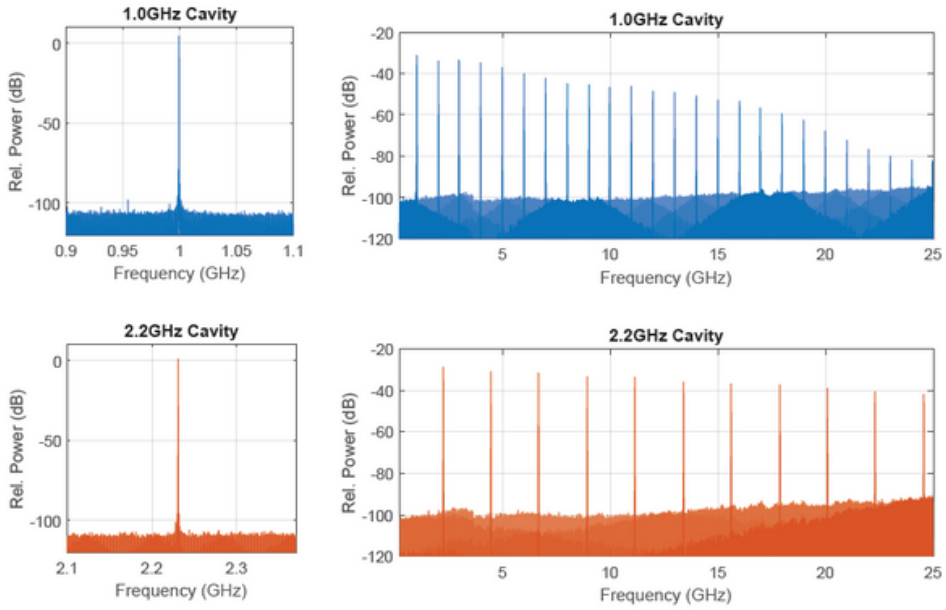


/ Autocorrelation Trace

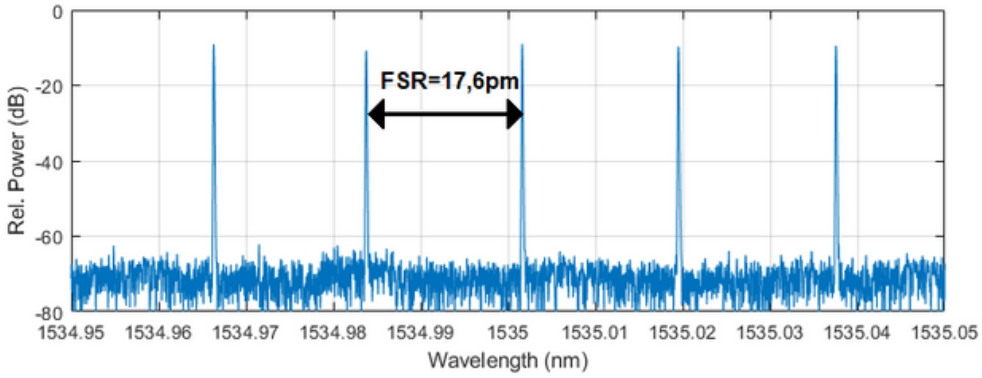


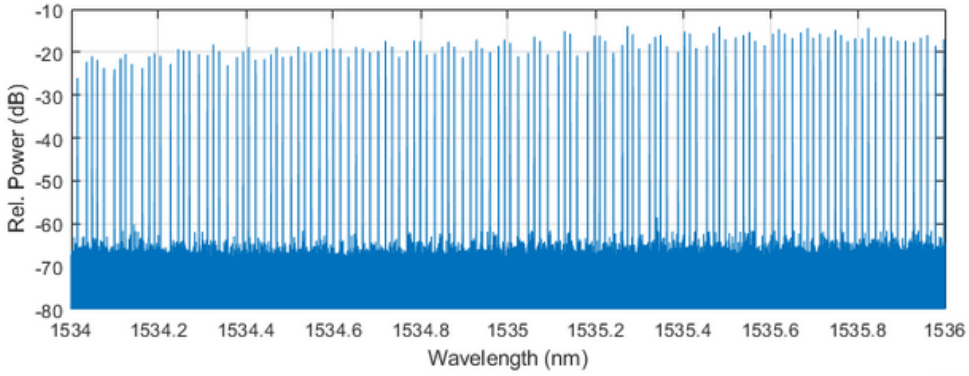
Zephyr

/ Radio Frequency Spectrum



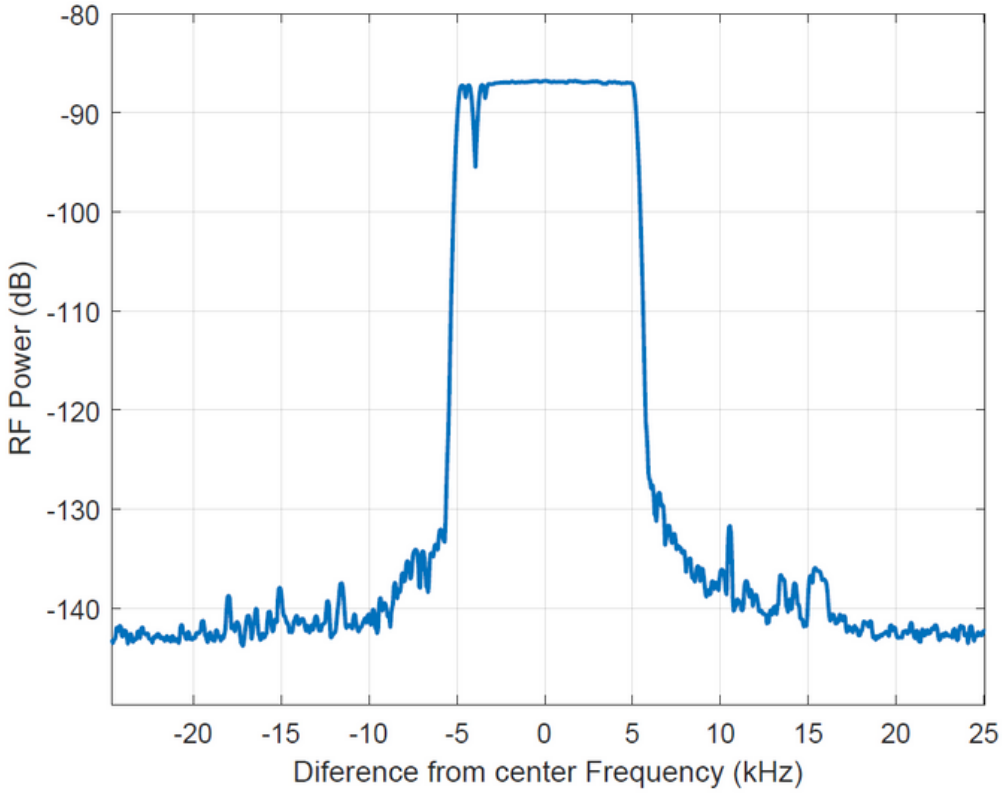
/ High Resolution Optical Spectrum



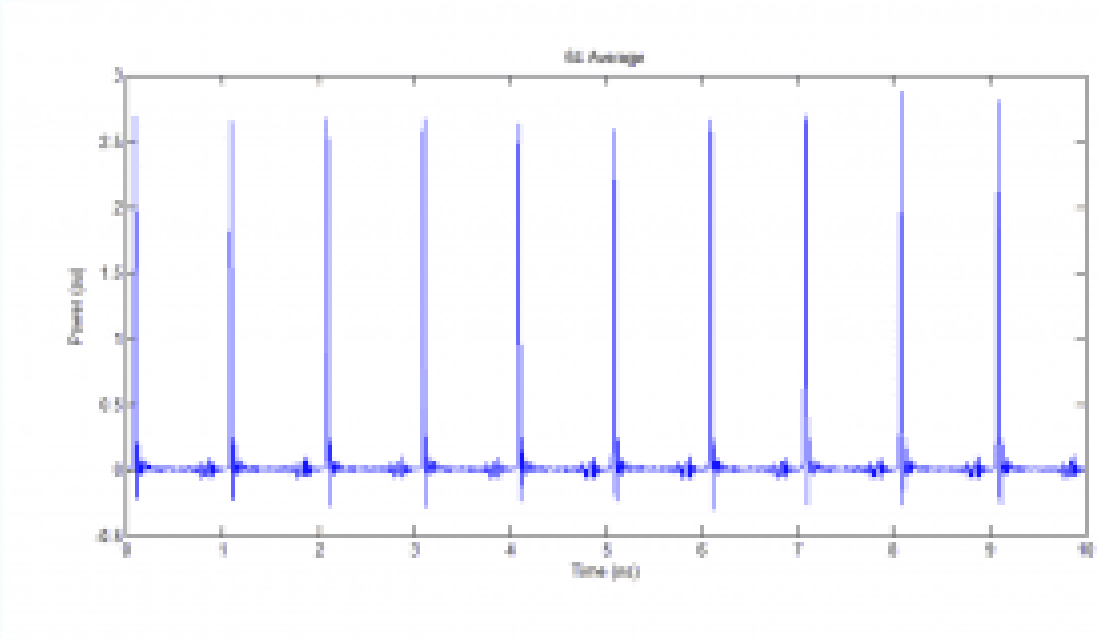


Zephyr

/ Max Hold Radio Frequency



/ 1 GHz pulse train



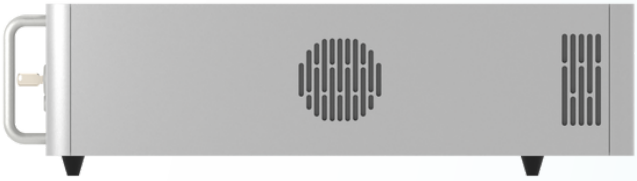
Zephyr

/ Technical Specifications

Repetition Rate	Spectral Range	Average Power	Pulse Duration
1.3 GHz	1535 +- 2 nm	> 1.5 W	< 100 fs

Timing Jitter:	<50 fs [10KHz-10MHz]
Amplitude Noise:	<0.5% RMS [24h]
Optical Bandwidth:	<27 nm (at -10 dB)
Optical Output:	FC/PC connectorized end cap
Synchronization / Connections:	Optical Reference / Electrical clock signal
Spatial Mode:	<1.1
Cooling:	Integrated peltier + air cooling
Power Requirements:	220 V / 110V - 50/60 Hz
Operating Temperature:	20 - 30 ºC
Storage Temperature:	0 - 60 ºC
Dimensions:	536x129x208 (WxDxH)

208 mm



129 mm

536 mm

OTHER DETAILED SPECS UNDER REQUEST

Zephyr

/ Additional information

Laser Security:

This product is a Class 4 laser.

Appropriate safety measures according to such laser class should be taken in its installation and use.

Warranty:

24 months warranty or > 10,000h of continuous operation.

Extended warranty on request.

/ FYLA contact

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